

Use Attainability Analysis

for

WBID 2372 Tributary to Davis Creek

Submitted by  
SES, Inc.

To  
Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 4, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
(For water body being surveyed)

**Water Body Information**

Water Body Name:	Tributary to Davis Creek	WBID:	2372
8 digit HUC code:	11010002	County:	Greene
Upstream Legal Description	29N 20W 1		
Downstream Legal Description	29N 20W 1		
Number of Sites Evaluated	3		
List all site numbers, listed upstream to downstream	3,2,1		

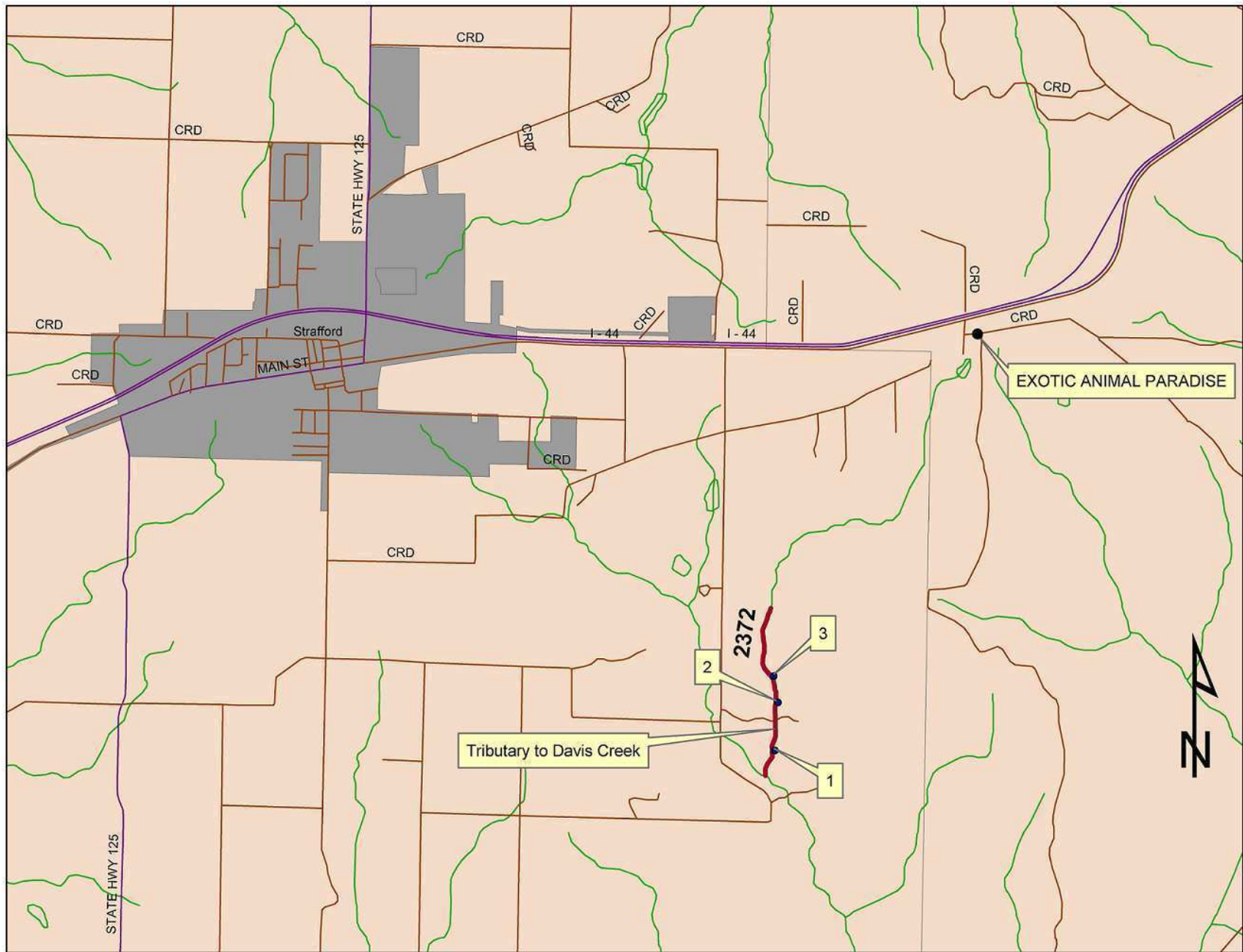
**Discharger Facility Information**

Discharger Facility Name(s):	Exotic Animal Paradise
Discharger Permit Number(s):	MO0125849

**UAA Surveyor**

Name of Surveyor:	Nolan Pringle	Telephone Number:	(913)307-0046
Organization/Employer:	SES, Inc.		
Position:	Field Team Leader		

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 2372  
 Site # 1

Date and Time: 5/15/2007 9:52

Current Weather Conditions sunny, clear

Weather Conditions for Past 10 days: 1.8 inches total rainfall in the area

Drought Conditions? No

Site Location (e.g. road crossing) 300 yards downstream Tranquil Rd.

GPS Mark: 1

Upstream Photo 3 Downstream Photo 2

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 2372      **Site #** 1  
**Mark #** 1      **Dissolved Oxygen (ppm)** N/A (dried up)  
**Upstream Views Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	0				

**Downstream View's Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current? no


Substrate:

% Cobble	% Gravel	% Sand	% Silt
45	50	0	0
% Mud/Clay	% Bedrock		
0	10		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

### Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**

Site # 1

Mark # 1

Depth (m)		Depth (m)		Depth (m)	
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
Bedrock/cobble	0.00	gravel/cobble	0.00	gravel	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
3 yards	0.00	3 yards	0.00	1 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
bedrock/cobble	0.00	gravel/cobble	0.00	gravel/cobble	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
3 yards	0.00	3 yards	0.00	3 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
bedrock/gravel/cob	0.00	gravel	0.00	gravel/cobble	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
4 yards	0.00	2 yards	0.00	2 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 4</b>	0.00	<b>Transect 8</b>	0.00	<b>Site Median</b>	<b>Site Maximum</b>
Substrate:	0.00	Substrate:	0.00	<b>0.00</b>	<b>0.00</b>
cobble/gravel	0.00	gravel	0.00		
Water Clarity:	0.00	Water Clarity:	0.00		
	0.00		0.00		
Channel Feature:	0.00	Channel Feature:	0.00		
	0.00		0.00		
Channel Width:	0.00	Channel Width:	0.00		
2yards	0.00	2 yards	0.00		
0.00	0.00	0.00	0.00		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2372  
 Site #                    2

Date and Time:            5/15/2007 10:05

Current Weather Conditions

Weather Conditions for Past 10 days:    1.8 inches total rainfall in the area

Drought Conditions? No

Site Location (e.g. road crossing)            200 yards upstream of crossing

GPS Mark:                    3

Upstream Photo                                    6                    Downstream Photo                                    7

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 2372      **Site #** 2  
**Mark #** 3      **Dissolved Oxygen (ppm)** N/A (dried up)  
**Upstream Views Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current?

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	0				

**Downstream View's Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
40	60	0	0
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

### Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**

Site # 2

Mark # 3

Depth (m)		Depth (m)		Depth (m)	
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel	0.00	gravel	0.00	gravel	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
2 yards	0.00	4 yards	0.00	2 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel	0.00	gravel/cobble	0.00	gravel	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
4 yards	0.00	5 yards	0.00	1 yard	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel	0.00	gravel/cobble	0.00	gravel	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
7 yards	0.00	5 yards	0.00	4 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 4</b>	0.00	<b>Transect 8</b>	0.00	<b>Site Median</b>	<b>Site Maximum</b>
Substrate:	0.00	Substrate:	0.00	<b>0.00</b>	<b>0.00</b>
gravel	0.00	gravel	0.00		
Water Clarity:	0.00	Water Clarity:	0.00		
	0.00		0.00		
Channel Feature:	0.00	Channel Feature:	0.00		
	0.00		0.00		
Channel Width:	0.00	Channel Width:	0.00		
4 yards	0.00	4 yards	0.00		
0.00	0.00	0.00	0.00		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    2372  
 Site #                    3

Date and Time:            5/15/2005 10:40

Current Weather Conditions            clear, sunny

Weather Conditions for Past 10 days:    1.8 inches total rainfall in the area

Drought Conditions? No

Site Location (e.g. road crossing)            600 yards upstream of crossing

GPS Mark:            2

Upstream Photo                                    4                    Downstream Photo                                    5

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 2372      **Site #** 3  
**Mark #** 2      **Dissolved Oxygen (ppm)** N/A (dried up)  
**Upstream Views Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current?

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	0				

**Downstream View's Physical Dimensions:** Is there any water present at this view? no

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
40	60	0	0
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

### Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**

Site # 3

Mark # 2

Depth (m)		Depth (m)		Depth (m)	
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel	0.00	gravel/cobble	0.00	gravel/cobble	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
1 yard	0.00	4 yards	0.00	4 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel	0.00	gravel/cobble	0.00	gravel/cobble	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
1 yard	0.00	3 yards	0.00	3 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.00
Substrate:	0.00	Substrate:	0.00	Substrate:	0.00
gravel/cobble	0.00	cobble	0.00	bedrock/gravel/cobble	0.00
Water Clarity:	0.00	Water Clarity:	0.00	Water Clarity:	0.00
	0.00		0.00		0.00
Channel Feature:	0.00	Channel Feature:	0.00	Channel Feature:	0.00
	0.00		0.00		0.00
Channel Width:	0.00	Channel Width:	0.00	Channel Width:	0.00
6 yards	0.00	2 yards	0.00	3 yards	0.00
0.00	0.00	0.00	0.00	0.00	0.00
<b>Transect 4</b>	0.00	<b>Transect 8</b>	0.00		
Substrate:	0.00	Substrate:	0.00		
gravel/cobble	0.00	gravel/cobble	0.00		
Water Clarity:	0.00	Water Clarity:	0.00		
	0.00		0.00		
Channel Feature:	0.00	Channel Feature:	0.00		
	0.00		0.00		
Channel Width:	0.00	Channel Width:	0.00		
9 yards	0.00	5 yards	0.00		
0.00	0.00	0.00	0.00		

**WBID# 2372 Tributary to Davis Creek**



**Site# 1 Photo ID# 3, Downstream**



**Site# 1 Photo ID# 2, Upstream**



**Site# 2 Photo ID# 7, Downstream**



**Site# 2 Photo ID# 6, Upstream**



**WBID# 2372 Tributary to Davis Creek**



**Site# 3 Photo ID# 5, Downstream**



**Site# 3 Photo ID# 4, Upstream**